

ABSTRACT OF THE DISCLOSURE

According to an exemplary embodiment of the invention, a method of forming a plurality of layers on an article comprises steps of generating a plasma by forming an arc between a cathode and an anode; injecting a first material comprising an organic compound into the plasma to deposit a first layer on the article; injecting a second material comprising an organometallic material into the plasma to form a second layer on the first layer; and injecting a third material comprising a silicon containing organic compound into the plasma to deposit a third layer on the second layer. The invention also relates to an article of manufacture comprising a substrate; an interlayer disposed on the substrate; a second layer disposed on the interlayer, the second layer comprising an inorganic ultraviolet absorbing material; and a third layer disposed on the second layer, the third layer comprising an abrasion resistant material. The interlayer may comprise a polymerized organosilicon material or a polymerized hydrocarbon material, for example. The second layer may comprise a metal oxide or zinc sulfide, for example. The third layer may comprise an oxidized organosilicon material, for example.

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